

## CLASS ELECTIONS TO BE HELD TOMORROW

All Offices in Freshmen Class  
and Vacancies in Three Upper  
Classes to Be Filled—Non-Tax-  
Payers Cannot Vote

### ANNOUNCE RESULTS MONDAY

Election of officers to fill vacancies in the three upper classes and all freshman offices will take place tomorrow in Room 3-203. Polls are to be open from 8.30 o'clock to 4.30 o'clock. Any man who has not paid his student tax will not be permitted to vote.

Nomination papers were filed last Saturday in the Information Office, and only those men whose names were handed in at that time will be eligible to election.

The results of the elections will be announced in The Tech next Monday.

The list of nominations is as follows:

#### Senior Class

For Treasurer: Saxton W. Fletcher, John H. Tipton, Sumner K. Wiley.

For Institute Committee (one member to be elected): Philip M. Dinkins, Theodore P. Wright, Royal B. Wills.

For Executive Committee (two members to be elected): Edwin M. McNally, Karl H. Kaiser, Thomas P. Kelley, Garrett H. Porter.

#### Junior Class

For President: William H. Banks, Cutter P. Davis.

For Institute Committee (one member to be elected): Herman A. Herzog, John Meader, Donald D. Way.

For Executive Committee (two members to be elected): David C. Sanford, Jr., Eugene R. Smoley, Joseph H. Tooley.

#### Sophomore Class

For Treasurer: John J. Hines, Jr., Roger G. Mosserop, Theodore W. Bosser.

For Institute Committee (one member to be elected): John W. Kellar, Norris G. Abbott, Jr., Murray M. Whitaker.

For Executive Committee (one member to be elected): Malcolm B. Lees, Prentice D. Ash, Bartholomew F. Casey, John A. Farrer, Jr., George R. Knight.

#### Freshman Class

For President: Frederick H. Herman, John L. Hurley, Edgarott Merrill, Christopher B. Nelson, Ernest F. Stockwell, Robert K. Thulman, William H. Young, Jr.

(Continued on page 3)

## CONVOCAION TODAY

Bishop Lawrence to Speak on  
"Work of the Red Triangle"

President MacLaurin has called a second convocation to be held this afternoon at 2.00 o'clock in Room 10-250. By executive order, all classes from 2.00 o'clock on will begin one-half hour later. Bishop Lawrence, who is one of the most diligent war workers in New England, will speak on the "Work of the Red Triangle," dwelling particularly on that phase connected with the cantonments.

He has been actively identified with various campaigns since the beginning of the war. The first one had for its object the raising of money with which to equip chaplains. Then he took a vigorous part in the Community Fund Campaign and is now engaged in the present Y. M. C. A. movement.

Bishop Lawrence is Bishop of Massachusetts and last June delivered the baccalaureate sermon at Technology to the class of 1917. He has also spoken before the Institute on other occasions.

### MEETING OF ENGLISH HIGH CLUB

The Boston English High School Club will hold its first meeting of the year this afternoon at 5.00 o'clock in Room 10-275. The plans of the club for the ensuing year will be outlined. All English High men are requested to attend.

## Here Are the Facts in the Present War Fund

### Campaign—It is Your Duty to Know them All

1. Homesickness, boredom, and friendlessness are more prevalent among soldiers than are death and wounds. The Y. M. C. A. relieves all this unhappiness of the trooper's life.

2. The Y. M. C. A. helps the soldier in a manifold capacity. It is his club, his home, his church, his school, his one chance of clean entertainment and recreation, his bank and post office.

3. Each 1,000,000 soldiers require 500 huts, 2000 experienced workers, 500 pianos, 500 motion picture machines, 500 phonographs, 25,000 phonograph records, 1,000,000 feet of picture film daily, 3,000,000 sheets of stationery daily, 25,000 chess and checker boards, 50,000 magazines weekly, and 1,000,000 Bibles and Testaments. Somebody pays.

4. These huts extend from the cantonments in this country to the various fronts line trenches and even into the prison camps in Germany.

5. The Y. M. C. A. is the only means whereby allied soldiers in Germany can be cared for. This is made possible only since Germany wants her own prisoners of war taken care of elsewhere.

6. Napoleon claimed that morale in war is to the other factors as three is to one. The Y. M. C. A. is the only factor through which the morale of the soldiers is made possible. "The willing fighter is he who is content; he fights for that which makes him content."

7. Members of the Root Commission to Russia have expressed the opinion that "the services of Y. M. C. A. will steady the (Russian) Army." It will hold 154 divisions of Germans and will mean the saving of millions of allied lives.

8. In this war there are now under arms, just nineteen times as many as in any previous war. Over 5,000,000 have been killed; 6,000,000 are now in prisons, 20,000,000 have been wounded; 5,000,000 are now in hospitals; an average of 25,000 are killed, wounded or missing every day.

9. General Pershing, President Wilson, Secretary Baker and Secretary Daniels are back of this campaign. They have requested the Y. M. C. A. to rush their work.

### DORMITORY RESIDENTS TO HOLD FIRST DANCE

The residents of the dormitories have arranged for a dance to be held Saturday, November 24. It will be the first affair of its kind to be held in the Walker Memorial. N. D. Connors '19, is the chairman of the committee in charge.

Dick Harrington's "Jazz" Orchestra will furnish the music. Wives of several prominent members of the Faculty will act as chaperones. All dormitory men are cooperating to set a high standard for future Technology dances.

The affair will be informal and its chief object will be to promote good fellowship among the students residing in the dormitories.

### N. E. I. A. A. CROSS-COUNTRY TO BE HELD NEXT SATURDAY

Annual Championship Race Will Be Run  
Over Franklin Park Course

The New England Intercollegiate A. A. Cross-country Championship meet will be run over the Franklin Park course next Saturday at 2.30 P. M. Tufts, Holy Cross, Boston College, Williams, Bowdoin and the Institute have already entered teams, and it is possible that the University of Maine and Middlebury College will also enter.

The Institute team has had a very successful season, having defeated Harvard on the Belmont course by the score of 26-31, and Dartmouth by the score of 24-31. Captain Herzog finished second in the Harvard meet and first in the Dartmouth meet, and the team which will compete next Saturday has been chosen from the men who made the best showing in these two meets. These men are: H. A. Herzog '19, captain, G. B. McCarten '19, H. R. Dorr '20, G. R. Owens '20, G. F. Halfacre '18, F. R. Carpenter '21, and F. H. Dyke '20.

### FRESHMAN WRESTLING SQUAD

About ninety freshmen have signed up for the wrestling class, which is under the supervision of Mr. Gracey. The class has been seriously hampered by lack of room since there is but one mat in the Caf, where the practice is held, but each man has an opportunity to receive a few minutes of personal instruction at each meeting.

Dean Burton requests all freshman candidates, who have not already done so, to report to Coach Kanaly as soon as possible. No freshman will be considered a member of the squad until he has reported as desired, and he will in the meantime be marked absent from physical training.

## TECHNIQUE SLAUGHTER

Arrangements Completed For  
Annihilation

Yesterday there was great rejoicing in The Tech office because the technicians at last answered the challenge of the champion, journalistic, pigskin-slugging team to a football fiasco to be staged on November 24. There was from the beginning a reluctance on the part of the Junior would-be literary lights to risk so many lives in a single venture, but at last their self-sacrificing spirit has come to the front and they are ready to place a team of victims on the field.

All Technology awaits anxiously the coming annihilation of the year-book men. The Tech has made extensive arrangements with the Red Cross for supplying stretcher-bearers to remove the carcasses of The Tech's victims. Over two hundred men have signified their willingness to aid in clearing the field of the technicians' corpses during and after the game.

Technique has reserved a room for the floral offerings which are expected to pour into their office on the eve of the slaughter, and negotiations for the precious embalming fluid are being completed. Numerous doctors have volunteered their services, but they were informed that they would be unnecessary.

(Continued on page 3)

### PRESIDENT'S WAR FUND MESSAGE

When so many are going into active service for a great cause and may be called upon to pay the full measure of their devotion to the country and the ideals that it represents, every Technology man should do not merely a "bit" but ALL that he can do to help win the war. An opportunity for really effective help is presented in the War Fund Campaign in which every one should take part whatever be his affiliations. Make the campaign a success by giving so liberally that you feel the sacrifice.

(Signed) Richard C. MacLaurin.

### 1920 TUG-OF-WAR PICTURE POSTPONED

The picture of the 1920 tug-of-war team was not taken yesterday afternoon and has been postponed until Wednesday, November 21. All members of the team will report at Notman's, 4 Park Street, Boston, at 1.15 o'clock sharp.

## CONVOCAION OPENS DRIVE FOR \$10,000 TO AID Y.M.C.A. WAR FUND

Mr. David Porter Tells Students of Horrors of Prison  
Camps and Urges Them to Help Relieve  
This Suffering

OVER \$2,000 ALREADY SUBSCRIBED

As a result of the mobilization of forces by the Technology Christian Association following President MacLaurin's approval of the movement in a speech delivered at the Wartime Dinner of the Wartime Tech, the Institute has up to 10 o'clock yesterday raised \$2,375 in its Fund. On the first day of the campaign, the original seventy solicitors raised \$900 among themselves.

### TECHNOLOGY MONTHLY TO HOLD LITERARY CONTEST

The Technology Monthly has announced a literary contest, open to all Technology students, with a prize of ten dollars offered to the author of the best manuscript. The contestant is permitted to write upon any subject of his choice, but the manuscript cannot contain less than 2000 or more than 4000 words.

The following rules govern the contest and must be strictly adhered to by the contestants:

(1) All manuscripts must have some distinguishing mark, such as an anonymous name, on them.

(2) A sealed envelope, containing a card with the real name and address of the author together with the anonymous name written on it, must be turned in with the manuscript.

(3) Manuscripts must be in on or before November 30 at 1.00 o'clock, and are to be placed in box 288 of the post-office in the lobby.

Walter Frazier '18, is the special prize contest editor and will act as judge together with Mr. Marks of the English department. The third judge will be selected in the near future.

### MUSICAL CLUBS GIVE FIRST CONCERT OF THIS SEASON

The Combined Musical Clubs began their season with the concert given last Tuesday evening at the Franklin Square House. The floor and the balcony of the hall were well crowded, although the masculine element was greatly in the minority. Dancing followed the concert.

Mr. Perrin, the founder of the house, greeted the audience and introduced the Combined Musical Clubs of Technology. The first selection, glee and instrumental, was "Take me back to Tech." Others were: "Hang-over Blues" (mandolin club), "Swing Along" (glee club quartet), and "The Two Grenadiers" (glee club). The "Bostonian March" and the popular songs which the banjo club played on their first appearance carried the audience away. Lawrence W. Conant, in his reading from "The Rivals," was no less successful.

During the intermission which followed, Miss Hosmer spoke in an especially convincing manner of the necessity of doing patriotic work in these times, and told about the "Patriotic League" plan.

Following the intermission, Mr. Harrington and "Miss" Coldwell sang a duet. The feature was a hit, and the audience had to admit that the "girls" from Technology were all right. This was followed by a selection by the mandolin club quintet, a vocal solo by E. A. Ekdhall '16, a xylophone solo by C. T. Proctor '20, and a cello solo by E. K. Eksergian '20. The last number was a selection, "To the Field," rendered by the glee club. The concert wound up with the "Stein Song."

### M. I. T. A. A. MEETING

There will be a meeting of the M. I. T. A. A. Monday, November 19, at 5.00 o'clock in Room 4-132.

The work of the American Y. M. C. A. in the present world conflict reaches from the cantonments here in the United States to the trenches on the various battle fronts and even into the German prison camps where allied soldiers are held captives. Funds raised from contributions throughout this country will be expended for the happiness and moral uplift of the men in the service. Technology, along with other American educational institutions, is endeavoring to increase to the utmost the amount of money whereby this humane work may be carried out.

The formal opening of this attempt by Technology to raise \$10,000 as a part of the thirty-five millions to be used for the benefit of the men fighting with both the American armies and with the Allies, took place last Monday afternoon when a Convocation was held in Smith Hall (room 10-250). Owing to the inability of the President to attend the meeting, Dean Burton presided and introduced Mr. David Porter, a graduate of Bowdoin and a Rhodes scholar at Oxford. He has been actively engaged in international Y. M. C. A. work, since receiving his degree from the latter institution in 1907.

Mr. Porter, in a short address the key-note of which was sacrifice, extended a vigorous appeal to Technology men to contribute generously to this campaign.

Citing several examples concerning the noteworthy sacrifices of a few men fighting as privates in foreign armies he continued: "In a few years millions will have learned the meaning of sacrifice hence it is essential that we begin now and the American colleges must help."

"Picture to yourselves the prospects

(Continued on page 3)

President Wilson: "May I not express the very high value I have attached to the work accomplished by the Y. M. C. A., and my sincere personal interest in the large plans of the War Work Council for the work still ahead of the Association?"

Only three more days left to contribute to the Y. M. C. A. War Fund Campaign. Have you given your share?

### TECH SEVEN CALENDAR

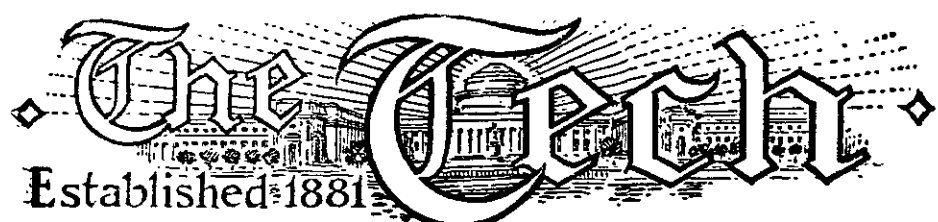
Thursday, November 15, 1917

2.00 P. M.—Convocation in Room 10-250. Bishop Lawrence to Speak.  
2.00 P. M.—Class Exercises Suspended until 2.30 P. M.  
5.00 P. M.—Meeting English High School Club. Room 10-275.  
5.00 P. M.—1921 Candidates for Publicity Department of Tech Show. Tech Show Office.

Friday, November 16, 1917

8 30-4.30—Class Elections. Room 10-203.  
Saturday, November 17, 1917  
1.00 P. M.—Banjo Club Rehearsal. Emma Rogers Room.  
2.30 P. M.—N. E. I. C. A. A. Cross-country Championships. Franklin Park Course.

# \$7,624 MORE TO RAISE--HAVE YOU GIVEN YOUR SHARE?



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Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. The Tech assumes no responsibility, however, for the facts as stated nor for the opinions expressed.

The Editor-in-Chief is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the news columns.

#### IN CHARGE THIS ISSUE

C. B. Capps '20.....Night Editor  
Louis B. Harris '20.....Assistant Night Editor

THURSDAY, NOVEMBER 15, 1917

#### ARE YOU GIVING ENOUGH?

THIS week is seeing at Technology a campaign for ten thousand dollars, a part of the million dollars which is being subscribed by American college students to be used in carrying on the war work of the Y. M. C. A. This work is receiving the support of every thinking person, and is recognized by the United States and other allied governments, not only as one of the most important factors in keeping up the morale of the men at the front and in alleviating suffering in the military prison camps, but as the foremost influence which is working with a thought toward the inevitable and difficult reconstruction period to come after the war.

The goal of ten thousand dollars set for the Institute to raise does not mean that that is all Technology men should give. It does not mean that each man should perform the mental division of the number of dollars by the number of students and then give just what is indicated by the quotient.

It means that ten thousand dollars is the least that such a great institution could offer with grace. We call your attention to the sums subscribed by other colleges, most of them with less students than Technology; we call your attention especially to the amounts raised by the women's colleges, Vassar and Wellesley. It is true that women are always quicker to respond to any call to sacrifice and serve—that is why they are idealized and revered by many men. Their finer instincts are better developed and more susceptible to outside stimuli than those of men. But men, we believe, also possess these finer instincts and will respond when awakened sufficiently to the need. If other institutions can donate so unstintingly to the fund, Technology will not fail.

We must realize that we are not doing our share if we only give what we can spare with ease. It must be something which hurts, something which entails real self denial. When some of these college girls are giving up their time and going out to perform menial tasks just to earn money to subscribe, certainly it is not too much to expect of men. Would you be able to look your sister or any other good young woman squarely in the eye if you knew that she was doing this sort of thing while you were holding back money to spend on selfish enjoyments? Let us rise to this opportunity to sacrifice something and prove that we are not lacking in true manhood.

#### THE CLASS ELECTIONS.

FRIDAY the class elections will be held. If the elections are to prove successful, able officers must be put in office, for they will practically determine the destiny of the classes. The upperclassmen will undoubtedly have something tangible to work with in voting for the nominees, but the freshmen may not have the knowledge and acquaintance so essential to a good choice. Whether or not the popular man makes the best class officer is a mooted question, but it will prove worth while to do some investigating before casting a ballot. In any case, the conscientious voter will have some evidence of the capabilities of the man he votes for and it is everyone's duty to be a conscientious voter.

#### ARTICLES FOUND

The students who have lost the following articles may obtain them by applying to the office of the Superintendent of Buildings and Power, Room 3-005, with a description of the missing things.

One copy "Writing of Today"; 1 copy "Advanced Machine Work"; 1 black loose leaf notebook; 1 copy "King Lear"; 1 copy "Inorganic Chemistry";

1 copy "College Physics"; 1 copy "Abstract of German Grammar"; 3 copies "New Complete Trigonometry"; 1 pearl handle knife; 1 gold handle knife; 3 bone handle knives; 1 fountain pen with calendar attached; 1 fountain pen with gold cap; 1 fountain pen with gold band.

Ex-President Roosevelt: "What the Y. M. C. A. has been doing in Europe is really remarkable, and now our citizens should aid them to do work of the same type for our troops."

#### WALKER CLUB EXPRESSES GRIEF AT LOSS OF MEMBER

Organization Extends Sympathy to Family of William Eastman

The Walker Club of the Institute wishes to express its feeling of the deep loss it has sustained as an organization in the death of William Eastman, Jr., the unhappy circumstances of which cannot but intensify the grief his friends are feeling. Eastman was the valued friend of us all, undergraduates and instructors alike, not only because he represented the best type of Technology man but because he possessed as well talents and interests found too infrequently here at the Institute. His classmates knew him as a conscientious student and an eager participant in activities. But a side of him which may not be so generally known was the charm of his comradeship and his love for all artistic expression of the fine and beautiful in life. His knowledge and appreciation of good music and good literature and his power of imparting his appreciation to others, his unaffected sense of the worth and importance of such expression, made it always a joy to be with him and to share his enthusiasms. It must always be remembered, too, that his death, although an unhappy and preventable accident, found him in the service of his country.

The members of the Walker Club, therefore, take this occasion to express their deep sense of loss both as a club and as individuals, and therefore wish to inscribe this minute in their records, to publish it in The Tech, and to send a copy to the family of their well-loved and well-remembered friend.

#### FIFTY CANDIDATES OUT FOR SWIMMING PRACTICE

About fifty candidates, thirty of whom were freshmen, were present at the first practice of the swimming team held last Monday afternoon. There were many indications of excellent material among them, and possibly that three or four members of the varsity squad will be chosen from the freshmen candidates. The first cut will be made at the end of the first two weeks, when about 25 per cent of the candidates will be dropped.

The dashes are well represented this year, but there is a lack of material in the plunges, and Manager Sheeline requests that several more heavy men come out for the plunges. A few more are needed also in the fancy diving events.

At the practice, held at the Boston Y. M. C. A. Monday each man was timed on the 25 yd. dash, and then given instruction in starts, and swam one hundred yards in order to strengthen his endurance.

#### FORMER INSTITUTE STUDENT SUCCEUMBS

Emile Bertrand Gaillac '18 Dies in France of Bronchial Pneumonia

Word has been received that Emile Bertrand Gaillac '18, son of Captain and Mrs. Louis E. Gaillac of Chelsea, and on service with the 101st U. S. Engineers in France, succumbed to bronchial pneumonia on November 7. Gaillac was a member of "C" company, 101st U. S. Engineers, the old 1st Corps Cadets. He entered the service last July and while in training at Wentworth Institute, was one of the six men out of 1800 to receive an award of special merit for excellence as an instructor.

Before entering the Institute, with the class of 1918, he attended the Chelsea High School, where he proved to be both an excellent student and a leader. His records in foreign languages and trigonometry were the highest in the school. He was business manager for the school paper, and during his last year was one of the class orators and an honor man.

While a student at Technology, Gaillac became prominent in athletics, and undergraduate activities, being a member of the Aero Club, the student section of the American Society of Mechanical Engineers, and the T. C. A.

#### BANJO CLUB REHEARSALS

Rehearsals of the Banjo Club will be held hereafter on Mondays at 5.00 o'clock in Room 3-270, and on Saturdays at 1.00 o'clock in the Emma Rogers Room. There is still an opportunity for several men to play mandolin-banjos in the club. Those interested will meet Harrington at the Emma Rogers Room on Saturday at 1.00 o'clock.

#### FACULTY NOTICE

Exercises in Highway Engineering will begin, in accordance with the Tabular View, on Monday, November 19. Mondays at 11.00 and Tuesdays at 2.00 in Room 1-134.

Walter Humphreys, Registrar.

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### NEW FRENCH GAS PLAYS HAVOC WITH GERMAN REGIMENTS

#### Technology Man Tells of Ingenious Revival of Trojan Horse Trick

A gas infinitely more deadly than the German mustard gas has been perfected by the French and is killing entire regiments of the Kaiser's forces at a time, according to information received from Conrad Hedin, formerly connected with the Institute, and Harold L. Humphreys of Van Wert, Ohio, who landed at an Atlantic Port after a period of service with Section 66 of the American Field Service, attached to the French Chasseurs. The ambulance drivers also tell of a wonderfully clever trick like that of the "Trojan horse" played upon the Germans by the French, and which served its purpose as well as that with which the Greeks of old deceived King Priam's people.



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"We were in the Chemin des Dames region on the Aisne front part of the time," said Mr. Humphreys. "That is a front which is not relished by anybody, especially the portion about Hurtebise, where the Crown Prince's Death Head Hussars are busy. There is no resting for anybody there. The guns go night and day."

"When the Germans started using their most recently discovered gas, which makes breathing even through masks very hard, the French hit upon a gas compared to which the German mustard gas is as harmless as a delicate perfume."

"The French gas defies masks altogether, and is entirely odorless, and has the disconcerting characteristic of causing an instantaneous hemorrhage of the lungs. In one instance it was used to such good advantage that fifteen hundred Prussians dropped dead in their tracks, although they were shielded by masks."

Mr. Hedin told of the episode in which the Teutons were fooled.

"This happened recently near Craonne," he said. "A horse which had gotten out of its traces and run away over 'No Man's Land' was killed by the Germans near the edge of their trench. An artistic technician in the French trench fashioned out of cardboard a horse so amazingly similar to the dead one that the deception could scarcely be detected even at close quarters. At night the dead horse was dragged into our trench and the cardboard one substituted in its place. Within the bogus horse was a French observer, who kept in constant telephone touch with our trench, and furnished information which must have been of great strategic value."

The Germans, the ambulance men said, are employing boys of even the tender age of thirteen years to serve at the front. Entire companies of prisoners are composed of boys ranging from fourteen to sixteen years.

### CLASS ELECTIONS

(Continued from page 1)

For Vice-President: Alexander D. Harvey, Donald F. Carpenter, Richard McKay, Lawrence W. Trowbridge, Eliot Underhill.

For Treasurer: Malcolm B. Beattie, James L. Entwistle, James R. Hotchkiss, Dana C. Huntington, Edmund J. MacDonald, Joseph H. McEvoy, Jr., William D. Morrison, Fearing Pratt, John N. Vaupe.

For Secretary: Paul N. Anderson, Richard S. Clark, Philip B. Holmes, John T. Rule, Edmund S. Whitman, Ellsworth M. Wilson.

For Institute Committee (two members to be elected): Adams, Charles B. Barton, Jr., Garvin Bawden, E. Walcott Booth, Warren K. Brimblecom, Carole A. Clarke, Winter Dean, Sanford J. Hill, William H. Irwin, Francis B. Kittredge, Charles F. Parker, Rollin F. Officer, Edmund F. O'Hearn, Donald J. Swift.

For Executive Committee (two members to be elected): John W. Barriger, Leland K. Cowie, Norman E. Ferguson, Arthur W. Norton, Norman F. Patton, Herman L. Schmidt, John N. Worcester.

### Y. M. C. A. WAR FUND

(Continued from page 1)

of one thousand American troops billeted as they are in some small village in France. On one hand they may find conditions deplorable; with filth in evidence and with no place to go to for recreation in the evening after a hard day preparing to go 'over the top' except the usual cheap drinking halls. Or they may discover a Y. M. C. A. hut, which has provided for their amusement and relaxation and forms a place wherein they may write home."

"From President Wilson down, the men in charge of the part which this country is to play in the present struggle are as one in saying that the work of the Y. M. C. A. in building up the morals and morale of the troops is extremely vital. And Napoleon has said that in war morale is to the other factors as three is to one."

The greater part of Mr. Porter's address was devoted to the horrors of the life in prison camps and the absolute necessity of relieving the sufferings of the men held captive, as an act of humanity at present and as an aid to reconstruction after the war.

"Conditions in the military prisons," said Mr. Porter, "this winter will be horrible, and especially so in Russia. By that time two million men will be captives in Siberia, together with three million scattered throughout Germany and Austria. The food in most of these prison camps is meagre and bad and the men have no blankets and little clothing. The captives will have to fight both scurvy and cold."

"But these hardships are physical and, although they are deplorable, what is far worse and much more difficult to relieve are the mental sufferings which these prisoners are forced to endure. Many of these captives come from cultured and aristocratic families and are fine-looking, university trained men. On this class of prisoners the burden falls hardest. Mr. John R. Mott, head of the Y. M. C. A. work, while in Germany, forced his way into one cell where seventeen one-time distinguished looking officers were huddled together, bereft of all mentality."

Mr. Porter then read a letter written by an American college man held prisoner somewhere in Germany to his sister here in the United States. The sentiments which it contained were so pathetic and so appealing that absolute silence prevailed during its reading. The brother wrote of his fear of going insane as his father had done in the same cell, dying shortly before without recognizing his own son.

In the pen next to this American was another captive driven mad by inactivity and always writing, of what and to whom, the captive himself did not know. The college man had tried to die, but even this was denied him, for the Germans watch their prisoners far too closely.

Concluding Mr. Porter spoke of the Russian private found smiling in a hospital bed. When asked why he did not get up and go out he turned back the covers, displaying the fact that he had lost both feet. He refused condolence and said, "It is good. I gave Russia my life and she has taken only my feet."

The American Y. M. C. A. is the only agent at the present time which has direct access to the welfare of our men in Germany. At the entrance of the United States into the world conflict, Germany was at first prone to revoke this privilege, but when warned that if she did so German prisoners of war in the allied countries and especially in Russia, would not be taken care of, she was forced to concede these demands. As a result an American was put in charge in both Germany and Austria. Most of the subordinates in these countries are of necessity neutrals.

Professor Porter, head of the campaign among faculty members, expressed the opinion that he placed the present movement third in importance. "First, is the raising of money for equipping troops and the purchase of munitions," he said. "Second, the support of the Red Cross, and third, this." One instructor from each department in the Institute has been detailed to canvass among his colleagues.

The following is a summary of the work done thus far at other colleges. Some of these campaigns were concluded within twenty-four hours, those of Vassar and Iowa State University being the most spectacular:

M. A. C., 500 students, \$6,250; Iowa State, 2,000 students, \$22,000; Penn. State, 1,800 students, \$8,200; Exeter, 430 students, \$3,000; Vassar, 1,500 students, \$16,000; Conn. College for Women, 220 students, \$5,000; Wellesley, 1,600 students, \$16,000; Bowdoin, 350 students, \$4,000; Virginia Military Institute, 900 students, \$6,000.

### TECHNIQUE SLAUGHTER

(Continued from page 1)

because of the complete annihilation planned by The Tech.

Last year's game took place on December 2. The game was hard fought from the start to the finish. The Tech eleven, outweighed and outnumbered, completely outplayed the technique bunch, but were forced to taste the sting of defeat because luck was on the other side, that is, the referee was. From all the dope obtainable about the Institute, luck or no luck, technique will be the underdog this year.

The Tech has developed several "camouflage" plays which will be pulled off in the coming classic. Several famous college experts and coaches have asked for details of these plays, but The Tech feels in honor bound to introduce them to the technique eleven or twelve or whatever multiple they try to put on the field. It was rumored that technique had planned a lot of dirty Hun poison gas and other such attacks, but investigation proved that the only preparation made by the unhappy ones was an hour's practice of their battle cry, "Morituri te salutamus," or in plain English, "Good night, Nurse!"

Secretary of Navy Daniels: "From every standpoint—military, political, moral—it is our duty to protect these youths, so that we can say to the mothers when the war is over, 'We return your sons as worthy of your family circle as when they left it.'"

### "PHENOMENA OF LIGHTNING" EXPLAINED TO ELECTRICALS

#### Expert Tells of Protective Methods Used Against Excessive Voltages

At a joint meeting of the Technology Student Branch and Boston Section of the American Institute of Electrical Engineers last Tuesday, Mr. F. W. Peek, Consulting Engineer of the General Electric Co., at Pittsfield, Mass., gave an illustrated lecture on "The Phenomena of Lightning." The chief topic of the lecture was the effect of lightning voltages on transmission and generating lines and apparatus and the various protective methods used against breakdown. Mr. Peek divided the causes of steep wave forms, such as occur in the tremendous speed and voltages of natural lightning into three phases, namely; the slow accumulation of high potentials due to the induction of the electrical energy in the clouds, the forcing of high frequency oscillations upon the circuits, and the sudden current rise built up by the discharge of lightning either to the line or in the immediate vicinity.

The first of these causes does not give the engineer much trouble because the electromotive overload is not enough to surpass the safety limits of good apparatus. The second high voltage strain is also quite effectively guarded against by the insertion in the transmission line of condensers and resistances. It is the steep wave caused by millions of volts rushing along a line at a velocity of 186,000 miles per second which is hard to insulate because of the freakish action of lightning potentials. Until recently it has been believed that the proper protection against electrostatic electricity was a needle gap, and correspondingly many tables have been based upon that gap, but Mr. Peek demonstrated in his lecture that these suppositions were incorrect because the action of a gap which has pointed electrodes is very erratic and unsteady.

In a new and original application of the electron theory, Mr. Peek explained how the sphere gap, which he found to be the best lightning protector he has ever experimented with, distributed the voltage over its entire surface, making the air between a regular dielectric, whereas the needle gap has all its voltage concentrated at the points. Experiments performed during the lecture demonstrated how the sphere gap and even a heavy porcelain insulator sparked heavily while the needle gap showed only a very slight brush discharge. By varying the frequency of the 200,000 volt spark which Mr. Peek obtained by his Tesla coils and transformers, it was shown how the spark passed from the sphere to the needle gap according to a law which the speaker has formed: "That the higher the voltage and frequency and the sharper the wave, the more surface is needed for the spark to jump in a minimum of time." One micro second is the greatest time required for a million volts to jump the sphere gap.

After the lecture a general discussion took place, led by Professors Kennelly and Franklin, on the topic of the evening. Among the subjects mentioned was the new radio course which will be started today at 4:00 o'clock in Room 10-250. In closing, Mr. Costello invited the student branch to all the meetings of the Boston Section.

### REGISTRATION LOSS IS SMALL

Technology has proved quite the exception among American colleges by its comparatively small decrease in registration from last year. Figures show that the loss is about 200 and that practically this number have entered the service.

The registration from European countries has slightly decreased but there are increases from Latin-America. The most notable increase is in Japanese students, twelve new men are here and some have been sent by the Japanese Government.

Of the 1500 students from this country, two-thirds are from Massachusetts and 130 others are from the remaining New England states. New York state sends about 100 and other middle states about 85. The South Atlantic and Gulf states send about 62, Texas sending 16. The other states west of the Mississippi send 103 and those east 42.

### FACULTY NOTICE

Bishop Lawrence will address students in Room 10-250, Thursday, at 2:00 o'clock. Exercises scheduled for 2:00 will be postponed to 2:30 by order of the President.

Walter Humphreys, Registrar.

Secretary of War Baker: "The Y. M. C. A.'s capacity for mobilization on a large scale and the readiness with which it has fitted itself to the needs of the troops makes it an indispensable factor in any future military plans. Its influence in rationalizing the strange environment into which the crisis has plunged our young men has been and will be most beneficial."

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### SENIOR PHOTOS FOR TECHNIQUE MUST BE TAKEN BEFORE DEC. 1

On December 1 all members of the Senior class expecting to graduate either in January or June, 1919, or at present unclassified members of the class, are expected to have had their formal picture for the Portfolio section of Technique 1919 taken. The office of Technique is open every morning from 8.45 to 9.00 o'clock, and from 1.00 to 2.00 o'clock, for the purpose of making appointments with the photographer. The hours between 12.40 and 2.30 o'clock every day including Saturday have been reserved for taking the photographs of the Seniors.

When the proofs of their photographs are sent to the Seniors, they should select the one which they wish published in Technique, mark it in some way, and return it to the Notman Photographic Co., mentioning that they desire the photo to go in the annual. No proofs should be brought to the Technique office. All orders for photographs for personal use must be made with the photographer and not with Technique.

Record cards, filled out with the data to appear under each Senior's name, should be turned in at the Technique office immediately. Additions and corrections can be made later. All men intending to take the course in Naval Architecture after graduating in January should make a note of the fact on the reverse side of the card.

Seniors who believe they should have their portraits appear in Technique, and have not received a notice from the Board of the year book, should see or leave a note for R. P. Hackett '19, Portfolio Editor, immediately.

Ex-President Taft: "We should feel proud of the Y. M. C. A., which is directed so ably. Are we going to be backward in giving our men the nearest thing they can get to a Christian home on the firing line?"

### BLACK SWEATER LOST

Will the finder of the black "V" neck sweater with an orange "M" on it, that was lost on the athletic field on Field Day, kindly return the same to J. W. McDonald, Jr., '20, at The Tech office.

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### ORCHESTRA TO GIVE FIRST CONCERT EARLY IN DECEMBER

The M. I. T. Orchestra will make its first public appearance this term at a concert and dance to be given on the evening of Thursday, December 6, at the Clarendon Club, Somerville.

At present, rehearsals are being held twice a week. Monday and Thursday at 5.00 o'clock, in the "Caf." basement of Building 2. Thirty-five men have been reporting regularly, and it will be necessary to decrease this number somewhat for the first concert.

The orchestra's repertoire now includes many dance numbers, from "Oh, Boy," the "Follies," and other popular musical shows, besides marches and various selections suitable for concerts.

Both C. L. Eksergian '20, the conductor, and R. H. Gilbert '19, the manager, are well satisfied with the progress of the orchestra and feel sure that this season will be the most successful in its history. There are several concerts scheduled and the organization will probably be busy filling engagements until next Spring when rehearsals for Tech Show music will begin.

### LECTURE IS GIVEN ON CEMENT GUN AND ITS PRODUCTS

In an illustrated lecture upon "The Cement Gun and Its Products," Mr. C. W. Boynton, of the Cement Gun Company, Allentown, Pa., set forth the extensive range of work to which this invention may be applied. Though the "gun" has been on the market for eight years, it has only been in the last two or three that it has gained its extreme popularity. Now its use is as of great a breadth as that of concrete itself.

The slides not only showed the construction details of the machine itself, and the methods of operation, but also the many kinds of structure in which its product, "Gunite," has been so successfully used. From the rejuvenation of dilapidated barns to its part in the construction of the immense Grand Central Terminal in New York City, it has been successfully used. Two other lectures of a similar character are to follow during the next four weeks.

OFFICIAL FROM THE  
**M. I. T. Committee for National Service**  
JAMES W. ROLLINS '78, Chairman  
WASHINGTON BUREAU  
908 Union Trust Building  
RAYMOND W. FERRIS '08, Secretary

A direct means of communication between the Technology and the National Government. If there is anything you wish to know in Washington, write to the Technology Bureau.

The War Department has recently issued the official assurance that every man of the 19,000 now in the second series of Reserve Officers' Training Camps who is recommended for a commission will receive appointment. This statement should relieve much of the anxiety which has been caused by articles in the daily press stating that less than thirty per cent of the graduates will be commissioned because of a suddenly achieved "surplusage of officers." It is probable, of course, that only a portion of those recommended will be called to duty at once, the remainder being placed upon an eligible list subject to call as needed.

**Signal Corps Board Chosen**  
A board of officers has been appointed by the War Department to visit each of the Reserve Officers' Training Camps for the purpose of selecting from among the students men specially qualified for certain positions in the Aviation Section (non-flying). This board will particularly seek men with military training who are fitted for appointment in the construction, photographic, radio and other special branches. It is hoped that from 1,500 to 2,000 will be obtained. The students will have an opportunity to volunteer for the service, such action releasing each automatically from his obligations to the camp.

### PROFESSOR ROGERS TO WED

Mrs. Morris Hall Pancoast has announced the engagement of her daughter, Miss Marie Baer, to Robert Emmens Rogers, a Professor of English at Technology. Miss Baer for the last three seasons has played leading parts in the productions of the Philadelphia State Society, and is at present appearing at the autumn season of the Art Theatre of Cincinnati. Professor Rogers has written a poetic fantasy, "Behind a Watteau Picture," which is to be produced by the Greenwich Village Players in their new theatre on its opening on November 15. He graduated from Harvard in 1909.

### Technology Men in War Service

The Tech wishes to print the names of Technology men in War Service, whether in a military or industrial capacity, together with the branch of such service with which they have allied themselves.

Notification of any corrections or changes in the information given in this column will be appreciated. Address any information of this character to the Managing Editor, The Tech, Massachusetts avenue, Cambridge, Mass.

#### Class of 1887

H. C. SPAULDING, Capt. Reported during past week for active duty in the purchasing section of the Gun Div. of the Ord. Sect. Stationed in Washington, D. C.

#### Class of 1906

G. M. HENDERSON, 1st Lieut., E. R. C. Is now training at the Amer. Univ., Camp Washington.

#### Class of 1911

R. T. WALKER, has been transferred from National Army to a Camouflage Company near Washington, D. C.

#### Class of 1914

W. P. KEITH, has received a temporary appointment with the Signal Corps, and expects to go to France for the purpose of investigating certain phases of the balloon question.

### COMPETITION FOR SHOW PUBLICITY DEPT. STARTS

The freshman competition for Assistant Publicity Manager Starts today at 5.00 o'clock. Candidates are to meet in the Show office, on the first floor of the Activities building, opposite the Co-operative Store. All freshmen are eligible. Two assistants will be chosen.

The duties of the Publicity Department are varied and require that a man be able to do more work than just publicity work. It keeps the Show before the Boston and Cambridge public by articles in the newspapers, billboard and poster advertising, and through the Alumni Association. The Assistants are required to do much of the stage department work in order that they may become acquainted with the progress of the Show and be able to substitute for any of the men if necessary.

Of the nine Sophomores competing for the position of Assistant Publicity Manager of the Show, two have been retained as a result of the first cut which was made last night. These men, C. B. Capps '20, and C. W. Hammond '20, will report to the Tech Show office Friday at 5.00 o'clock.

General Pershing: "The greatest service America can immediately render France is to extend Association work to the entire French army."

### THE TECHNOLOGY MONTHLY ISSUES CALL FOR CANDIDATES

Although there has already been one call for men to compete for various position on the Technology Monthly, the management has recently issued another. Competitions are limited to the three lower classes in both the business and editorial departments.

From the candidates, six freshmen, five Sophomores and two Juniors will be chosen as assistants in the business department, while four freshmen are to be picked as editorial assistants. Two Sophomores and two Juniors will be selected as associate editors.

Those interested in the work should call at the office of the Tech Monthly any day this week between 1.30 and 3.00 o'clock.

General H. L. Scott: "I do not know what the army would do without the Y. M. C. A."

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